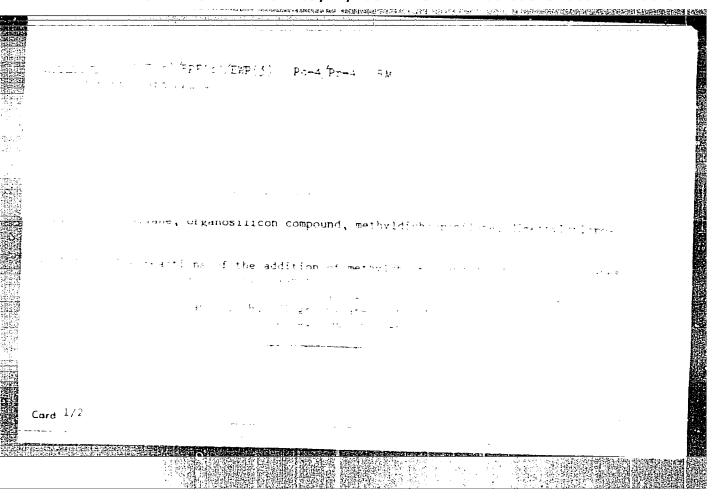
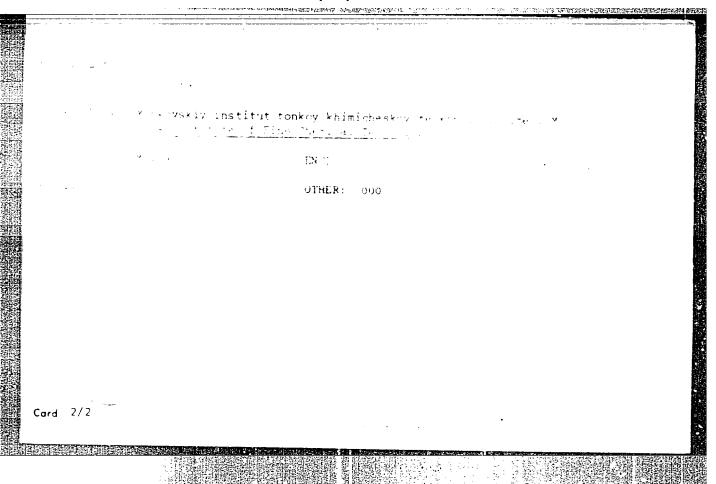
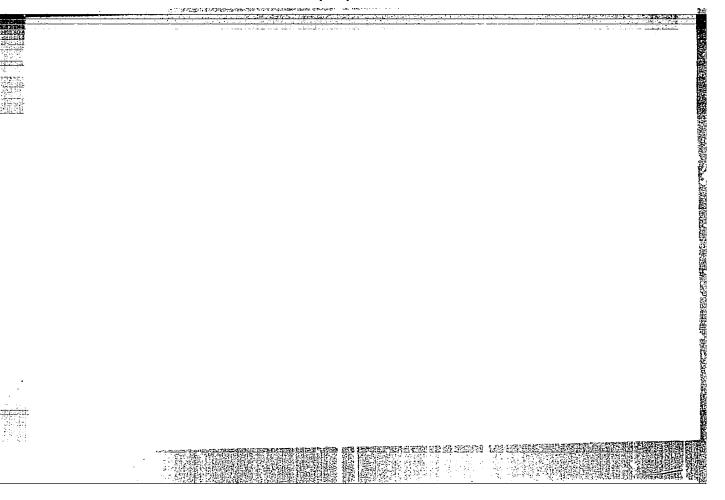


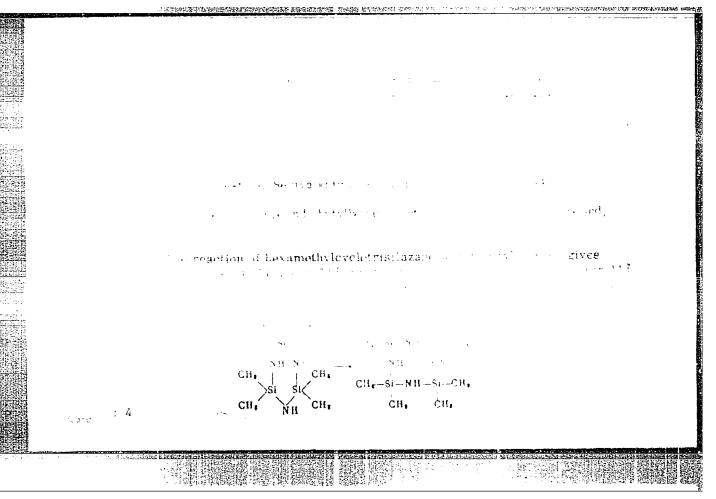
ACCESS!	ON MR: AF5003962	a e			والفسر الإدارة	Œ: 31
or of the second of the secon	ileane of Continentived compound	(; am)	4		 R:	D
			·	·	found	cals.
•	Heptamethyl allyl cyclotetrasiloxane	市。(3)	12.110	10.414	1.31	83.61
عند -	nexametnyl diallyl cyclotetrasiloxane	57-58 (3)	1.4243	10.9691	1 12.78	92.10
لله ،	Pentamethy) trially1 (yoldfarnssiloxane	[52 (3)	, 1,		* * * * *	101,85
Ψ	der Pitetraethyl allyl ymletrisilixane	70-72	· · · · · .			2j
·	Dimethyldiethyl diallyl oyclotrisiloxane	67-69 (1)	1.4375	0.9629	82.12	82.88
71	Tetramethyl trivinyl cyclotetrasiloxane	49 (5)	1.4247	1.9919	31.94	82.67
ard 3/3						



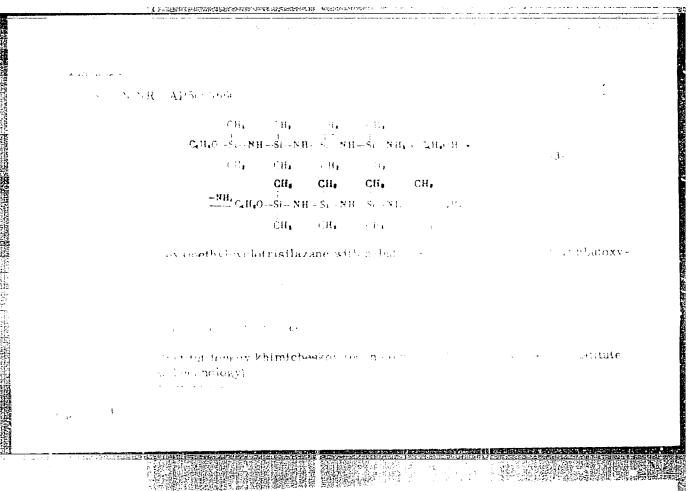




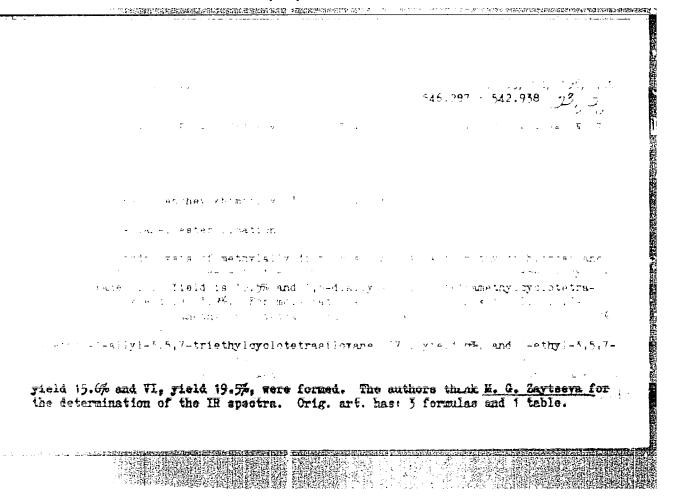


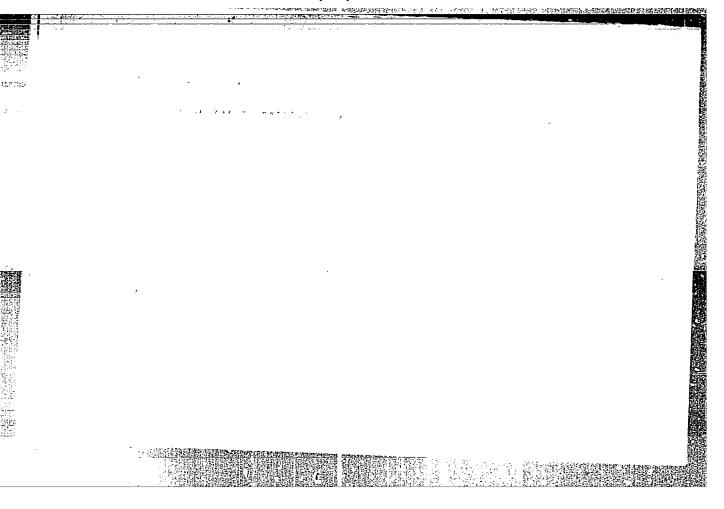


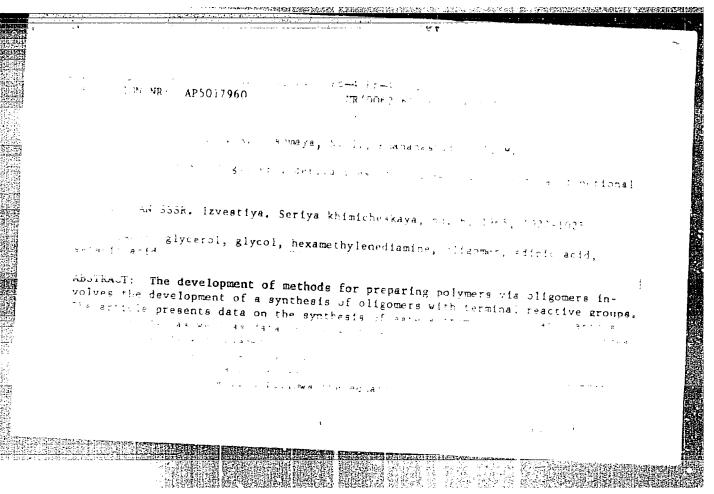
ADEAACCA		2
CCESSION NR: AP5009660		
to the second of the of	the glaphol with congruences	e Name is example the ring is
, L	Ha the tree you	
	$S_1 - NH - S_1 = 0 - C_1H_1$	
	NH NHH	(2)
C	He-Si - NH - Ji - CH.	, ,
	CH⁴ CH⁴	
	CH. CH. CH. CH.	
• → C ₆	II.O-SI-NH-SI-NH-SI-NII-SI-	-N H.
4	CH. CH. CH.	
and a mine amount of the	compound thus formed react.	a with the alcohol, and ammonia
and the state of t		
sed 2/14		

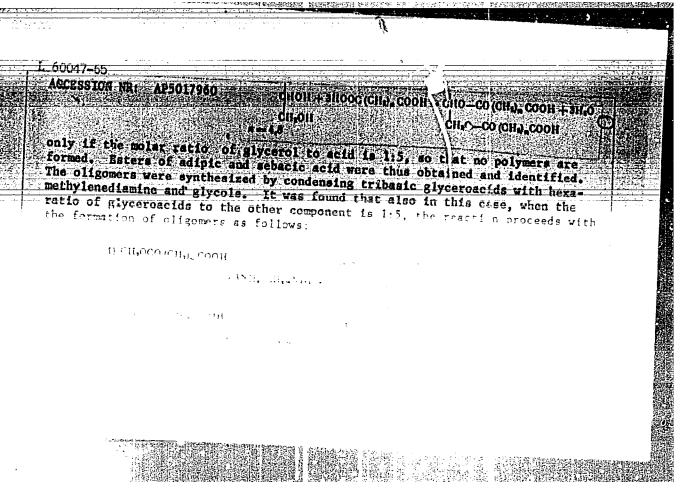


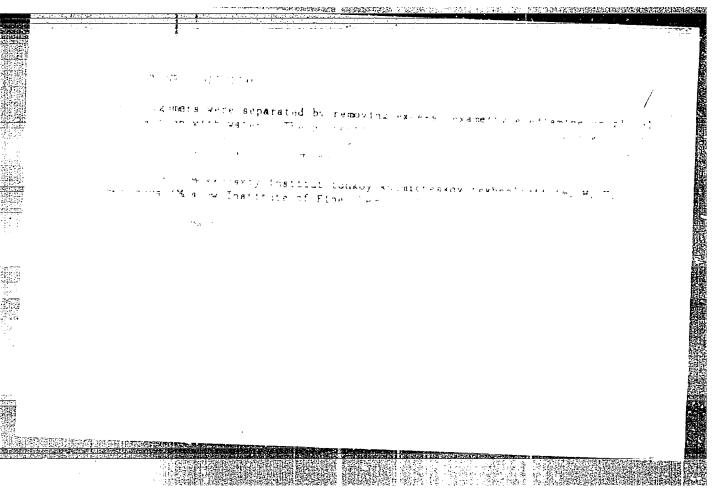
The state of the s	
Service Control of the Control of th	
TOPIC TACS: silane, silicon organic compounds, hydrolysis,	organic synthesis
	u yyr <u>lit</u> ferent
См. 3 См ³ 1	
$ \begin{bmatrix} CH_{3} \\ H_{1}ComHC \end{bmatrix}_{m} \begin{bmatrix} R \\ R \\ CH_{4} \end{bmatrix} SiO + HCI + polymer. $ $ R = CH_{4} C_{4}H_{4} R' = H C_{4}H_{5} $: .
$R = CH_{\bullet \bullet} - C_{\bullet} H_{\bullet} - R' = H - C_{\bullet} H_{\bullet}$	
yj.a.3,5,5-tetraethyloyolotrililoxabe a.c	
。 「一個學學學學學學學學學學學學學學學學學學學學學學學學學學學學學學學學學學學學	

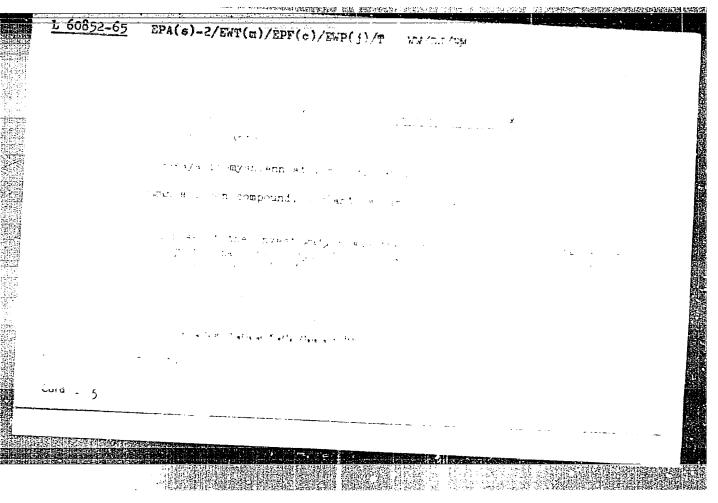


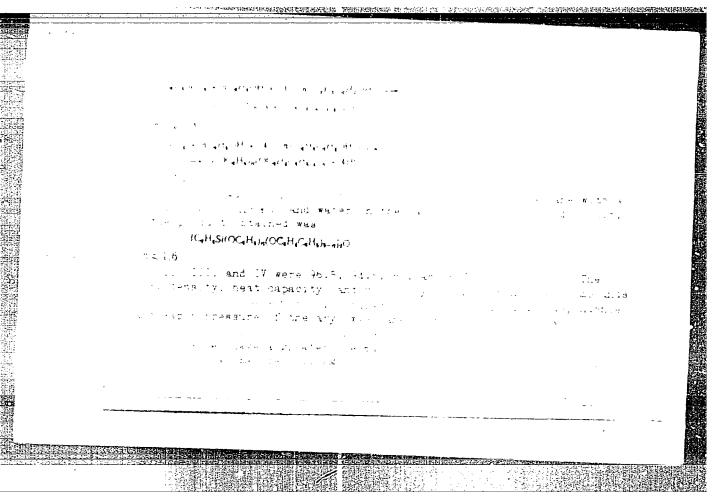


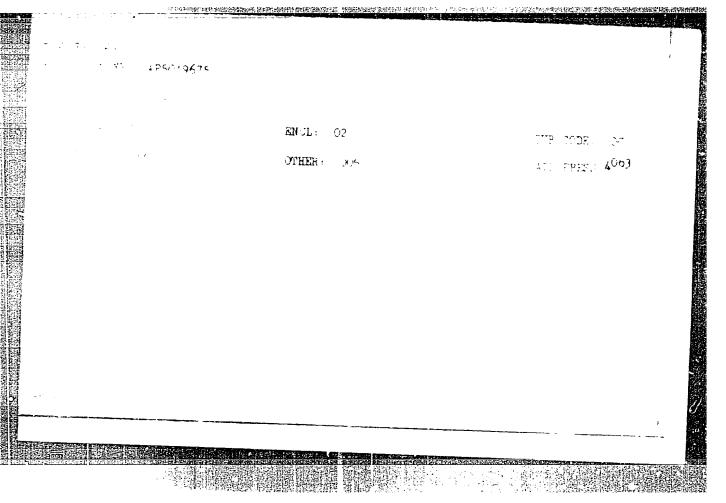


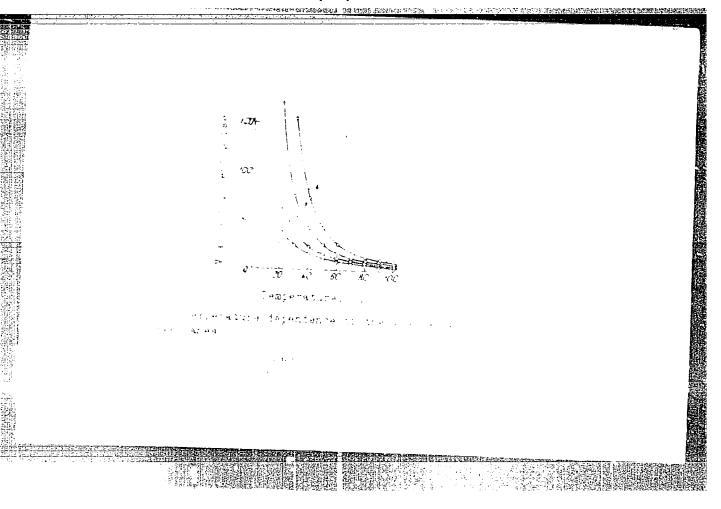






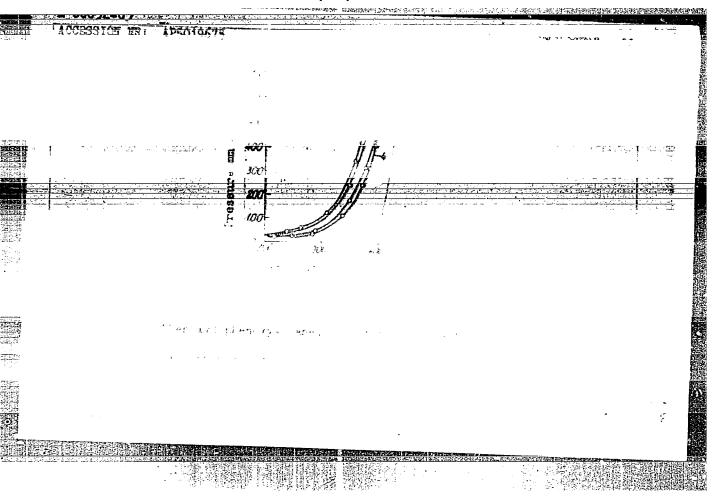






APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721720019-2"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721720019-2



ANDRIANOV, K.A.; TALANOV, V.H.; KHANANASHVILI, L.M.; SOBOLEV, Ye.S.

Interaction of & a-dichlorodimethylsiloxanes with ethylamine and diethylamine. Izv. AN SSSR. Neorg. mat. 1 no.11:1849-(MIRA 18:12)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni M.V. Lomonosova. Submitted June 3, 1965.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721720019-2"

L 16082-66 EWI'(m)/EWP(j) WW/RM ACC NR: AP6005930	
SOURCE CODE:	: UR/0079/66/036/001/0105/0107
AUTHOR: Andrianov, K. A.; Kurakov, G. A.; Kopylov,	V. H.; Khananashvili, L. H.
institut tonkoy khimicheskoy tekhnologii)	im. H. V. Lomonosov (Moskovskiy
TITLE: Reaction of aluminum bromide with octamethy	lcyclotetrasiloxana 27/
SOURCE: Zhurnal obshchey khimii wi 36 no 3	29 1
TOPIC TAGS: organosilicon compound aluminum compou	und, bromide
ABSTRACT: The reaction between octamethylcyclotetra under various conditions and with various proportion The authors found that the reaction proceeds in acco posed earlier for the reaction between aluminum chlo siloxane:	asiloxane and aluminum bromide as of the reactants was studied. Ordance with the mechanism propride and octamethyleseless
$(CH_3)_2Si - O - Si(CH_3)_3 - (CH_3)_2Si - O - Si(CH_3)_3 - (CH_3)_3Si - O - Si(CH_3)_3 - (CH_3)_3Si - O - Si(CH_3)_3$ $(CH_3)_2Si - O - Si(CH_3)_3 - (CH_3)_3Si - O - Si(CH_3)_3$ ard 1/3 (I)	CH ₃ CH ₃ CH ₃ CH ₃ Br-Si-O-Si-O-Si-OAIBr ₃
ard 1/3 (I) UDC: 547.245	+ 546.623

			•	1.	
L 16082-	66				
ACC NR: AF	6005930			the day of the statement of the state and the state of th	
The product	formed decompo	ess to form	,		2
		CH ₃ CH ₃ Br-Si-O-Si-Br CH ₃ CH ₃	(I) and	(CH ₃) ₂ Si AlBr	(11)
Two molecule	es of compound	(II) than most			
complex com	oundy	(II) then react wi	th one molecule	of AlBr to for	u the
		1 1			
		(CH _s) _s SI AIBr A	lBr ₃		
	<i>'</i>	_ (CH ₂) ₂ , _	(171)		
	· •				
		· ·			
Under more d		· ·		duning distant	
Under more d		ns, the following pressure:		during distilla	tion of
		· ·		during distilla	tion of
Under more dithe products		· ·		during distilla	tion of
		· ·		during distilla	tion of

ACC NR: AF	6005930	· · · · · · · · · · · · · · · · · · ·	7 100	and the second s	. p. man-room and make house o	To the strain section of the sec	t chi e in est e mezindenden e		"]
•		CH ₃	CH ₃ O—SIBr + AIBr ₃ -	4841) Olm				/	
		CH,	CH,	> (GH ₂) ₂ S1Br ₂ +					
			L CH,						
·		The same of the sa	+ Br-Si-0	-AlBr ₂					
1			L CH,						1
By changing	the mane	h2 10.		· -			а		
By changing methyldibrom	the react	tion condit	ions, one can	obtain dimet	hyldibro	omosilan	e tetr	a-	
By changing methyldibrom xanes with	the react modisiloxa and 4 si	tion conditane, crysta llicon atom	ions, one can lline product s. Orig. art	obtain diment (III), and has: 2 tal	hyldibro	mosilan "w-dibro	e tetr	a- ilo-	
By changing methyldibrom wanes with ;	and 4 si	ilicon atom	s. Orig. art	has: 2 tal	les.	w-dibro	aopolys	a- ilo-	
xanes with	and 4 si	tion conditane, crystallicon atom	s. Orig. art	obtain diment (III), and he has: 2 tab	les.	w-dibro	aopolys	a- ilo-	
xanes with	and 4 si	ilicon atom	s. Orig. art	has: 2 tal	les.	w-dibro	aopolys	a- ilo-	
xanes with	and 4 si	ilicon atom	s. Orig. art	has: 2 tal	les.	w-dibro	aopolys	a- ilo-	
xanes with	and 4 si	ilicon atom	s. Orig. art	has: 2 tal	les.	w-dibro	aopolys	a- ilo-	
xanes with	and 4 si	ilicon atom	s. Orig. art	has: 2 tal	les.	w-dibro	aopolys	a- ilo-	

AUTHOR: Andrianov, K. A. (Academician); Sidorov, V. I.; Khananashvili, L. M. ORG: Moscow Institute of Fine Chemical Technology im. M. V. Lomonosov (Moskovskiy institut tonkoy khimicheskoy tekhnologii) TITLE: The nitrosochlorination of alkenylmethylsiloxanes SOURCE: AN SSSR: Doklady, v. 167, no., 3, 1966, 571-574 TOPIC TAGS: reaction mechanism, chemical reaction, siloxane, chlorination, organic nitroso compound, olera, Chloriog. ABSTRACT: The authors analyze the addition of nitrosyl chloride to olefins on the example of 3-vinyl-heptamethyl-trisiloxane (I) and allyl-pentamethyl-disiloxane. (II). The experiments showed that in the case of I, the only reaction product was the corresponding nitrochloride (III). The probable reaction course is	
Card 1/2 UDC: 547.128	

ACC NRI AP6	015645	(A)	SOURCE CODE:	UR/0413/66/000/00	9/0055/0055
INVENTOR: A Sigarev, A.	ndrianov, K. M.; Khananash	A.: Vasil'vev		yev, Yu. F.; Kole	
ORG: none		W	_		39
TITLE: Anti	friction lubr	icant. Class	23, No. 181222		ð,
SOURCE: Izol	preteniya, pro	omyshlennyye d	obraztsy, tovar	nyye znaki, no. 9,	1966, 55
TOPIC TAGS:	molybdenum di	lsulfide, soli	ld lubricant, s	ilicone lubricant	
include petro	leum coke, an	d polymethylp	henylsiloxane r	an antifriction lub lubricant is formu and p <u>olyaluminophe</u> n	oricant based lated to sylsiloxane (SM)
include petro	leum coke, an	d polymethylp	ts quality, the phenylsiloxane	lubricant is formu and p <u>olyaluminophe</u> n	lated to ylsiloxane
include petro	leum coke, an	d polymethylp	henylsiloxane r	lubricant is formu and p <u>olyaluminophe</u> n	lated to ylsiloxane
resins. () SUB CODE: 11	leum coke, an	d polymethylp	henylsiloxane r	lubricant is formu and p <u>olyaluminophe</u> n	lated to sylsiloxane (SM)
include petro	leum coke, an	od polymethylp O6Mar65/ A	henylsiloxane r	lubricant is formu and p <u>olyaluminophe</u> n	lated to ylsiloxane
resins. () SUB CODE: 11	leum coke, an	od polymethylp O6Mar65/ A	thenylsiloxane The PRESS: 425	lubricant is formu and p <u>olyaluminophe</u> n	lated to sylsiloxane (SM)

West Statement and Charles and Charles

EJAJAMASHVILI, ". M.

"Differentiation of Positive Conditioned Irritations Brinfered by Uniform Unconditioned Alimentary Reflexes." Cond Med Bot, Inst of Experimental Medicine, Acad Med Sci, Leningrad, 1954. (RBBiol, No 1, Jan 55)

Survey of Scientific and Technical Distortations Defended at USSR Higher Educational Institutions (12) SO: Sum. No. 556, 24 Jun 55

KHANANASHVILI, M.M.

11 1 4 X 4 X 4 5 4 F / Z / , 1 1 4

nama karangan

Differentiation of positive conditioned stimuli reinforced by homogenous unconditioned irritation. Zhur.vyssh.nerv.deiat. 5 no.4:565-573 Jl-Ag '55. (MLRA 8:11)

1. Fiziologicheskiy otdel im. I.P.Pavlova Instituta eksperimental'noy meditsiny AMN SSSR.

(REFLEX, CONDITIONED,

differentiation of basic stimuli reinforced with homogenous unconditioned factors)

KHANANASHVILL, M. M.

USSR/Human and Animal Physiology. The Nervous System.

V

Abs Jour: Ref. Zhur-Biol., No 6, 1958, 27432.

Author : M.M. Khananashvili.

Inst : The Institute of Experimental Medicine of the

Academy of Medical Sciences of the USSR

Title : New Data on the Differentiation of Conditioned

Special Stimuli

Orig Pub: Yezhegodnik. In-t eksperim. med. Akad. med. nauk

SSSR, 1955, Leningrad, 1956, 36-40.

Abstract: A conditioned response to $M_{12}\theta$ was established in a dog in association with feeding reinforce-

ment under conditions in which the animal was free to move about a room, the floor of which was divided into squares. The M₁₂₀ was included

Card : 1/2

KHANANASHVILI, M.M.

Participation of the inhibitory process in differentiation of basic conditioned stimuli. Zhur.vys.nerv. deiat. 6 no.3:433-437 My-Je 156.

1. Fiziologicheskiy otdel in X P. P. J. (MLRA 9:11)

1. Fiziologicheskiy otdel im. I.P.Pavlova IEM AMN SSSR.

(REFLEX, CONDITIONED,
inhib. processes in differentiation of basic stimuli
(Rus))

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721720019-2"

```
Complex motor reactions to inhibiting stimuli [with summary in English]. Zhur.vys.nerv.deiat. 8 no.51629-636 8-0 '58 (MIRA 12:1)

1. Fisiologicheskiy otdel im. I.P. Pavlova Instituta eksperimental' noy meditsiny AMM SSSR.

(REFLEX. COMDITIONED.

complex motor reactions to inhib. stimuli (Rus))

(MOVEMENTS.

same (Rus))
```

MHANANASHVILI, M.M.

Correlation between the cortical segments of the visual and motor analysors following interruption of association connections of the neocortex. Fiziol.zhur. 44 no.10:615-921 0.58 (MIRA 12:1)

1. From I.P. Pavlov's physiological laboratory, Institute of Experimental Medicine, Leningrad.

(CEMEBRAL CORTEX, physiol.

eff. of interruption of neocortical connections on cortical ends of visual & motor analyzers (Rus))

BIHYUKOV, D.A., otv. red.; ABULADZE, K.S., red.; DANILOV, I.V., red.; KUDHYAVTSEVA, N.N., red.; KOSTENETSKAYA, N.A., red.; LAPINA, I.A., red.; MURAV'YEVA, N.P., red.; KHANANASHVILI, M.M., red.; ZIMKINA, A.M., red.; KHARASH, G.A., tekhn. red.

[Some problems of modern physiology; a collection of papers dedicated to the 70th birthday and 45th anniversary of the scientific activity of the Honored Scientist, Professor Petr Stepanovich Kupalov, member of the Academy of Medical Sciences of the U.S.S.R.]Nekotorye voprosy sovremennoi fiziologii; sbornik, posviashchennyi 70-letiiu so dnia rozhdeniia i 45-letiiu nauchnoi deiatel'nosti deistvitel'nogo chlena ANN SSSR zasluzhennogo deiatelia nauki professora Petra Stepanovicha Kupalova. Leningrad, Medgiz, 1959. 262 p. (MIRA 15:8)

1. Institut eksperimental'noy meditsiny Akademii meditsinskikh nauk SSSR (for Biryukov, Abuladze).

(KUPALOV, PETR STEPANOVICH, 1889?-)

(PHYSIOLOGY)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721720019-2"

KUPALOV, P.S.; KHANANASHVILI, M.M.

Differentiation of spatial conditioned stimuli. Zhur. vys. nerv. deiat. 10 no. 3:305-312 My-Je '60. (MIRA 14:2)

1. Pavlov Physiology Department, Institute of Experimental Medicine, U.S.S.R. Academy of Medical Sciences, Leningrad. (CONDITIONED RESPONSE) (SPACE PERCEPTION)

KHANANASHVILI, M.M.

Differentiation of close positive conditioned stimuli. Zhur.vys. nerv.deiat. 10 no.6:874-879 N-D '60. (MIRA 14:1)

l. Fiziologicheskiy otdel im. I.P.Pavlova Instituta eksperimental'noy meditsiny Akademii meditsinskikh nauk SSSR.
(CONDITIONED RESPONSE)

CIA-RDP86-00513R000721720019-2 "APPROVED FOR RELEASE: 09/17/2001

KHANANASHVILI, M.M. Mode of action of aminazine on the higher nervous activity. Farm.i toks. 23 no.4:295-299 J1-Ag 160.

> 1. Fiziologicheskiy otdel imeni I.P.Pavlova (zav. - deystvitel'nyy chlen AMN SSSR prof. P.S.Kupalov) Instituta eksperimental'noy meditsiny AMN SSSR.

(CHLORPROMAZINE)

(CONDITIONED RESPONSE)

(MIRA 14:3)

KHANANASHVILI, M.M.

Role of the lateral geniculate body in performance of visual function. Fiziol.zhur. 46 no.2:156-160 F '60. (MIRA 14:5)

1. From I.P.Pavlov' Department of Physiology, Institute of Experimental Medicine, Leningrad.
(OPTIC THALAMUS) (VISION)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721720019-2"

KHANANASHVILI, M.M.

Operation for excluding the function of the cerebral hemispheres. Fiziol.zhur. 47 no.5:661-662 My '61. (MIRA 14:5)

1. Fiziologicheskiy otdel imeni I.P.Pavlova Instituta eksperimental'noy meditsiny AMN SSSR, Leningrad.
(BRAIN—SURGERY)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721720019-2"

(Dogs.		Adrianov, T.A.Mering . zhur. 47 no.9:1212- (MIRA BRAIN) (MERING, T.A.)	213
,			
	•	:	

KHANANASHVILI, Mikhail Mikhaylovich; VASILYEVA, Z.A., red.; BUCROVA, T.I., tekhn.red.

[Experimental study of the central mechanisms of the visual function] Eksperimental noe issledovanie tsentral nykh mekhanizmov zritel noi funktsii. Leningrad, Medgiz, 1962.

179 p. (MIRA 15:5)

(BRAIN—LOCALIZATION OF FUNCTIONS)

(VISION)

KHANANASHVILI, M.M.; VCLKOVA, V.D.

Method for the long-term implantation of cannulae into the brain of animals. Fiziol.zhur. 48 no.6:762-764 Je '62. (MIRA 15:8)

1. Fiziologicheskiy otdel imeni I.P.Pavlova Instituta eksperimental : _ noy meditsiny, Leningrad.

(BRAIN—SURGERY)

VOLKOVA, V.D.; KHANANASHVILI, M.M.

Some data on the effect of aminazine on complex conditioned reflex activity of animals following its direct introduction into different segments of the brain. Biul. eksp. biol. i med. 54 no.9:65-68 S '62. (MIRA 17:9)

1. Iz fiziologicheskogo otdela imeni Pavlova (zav.- deystvitel'nyy chlen AMN SSSR P.S. Kupalov) Instituta eksperimental'noy meditsiny AMN SSSR, Leningrad. Predstavleno deystvitel'nym chlenom AMN SSSR P.S. Kupalovym.

KHAMANASHVILT, M. M.

Dissertation defended at the Institute of Physiology ireni I. P. Pavlov for the academic degree of Doctor of Fedical Sciences:

"Experimental Investigations of the Central Lochar'smof the Visual Function."

Vestnik Akad Tauk, No. 4, 1063, pp. 119-145

KHANANASHVILI, M.M.

Associative connections of the visual analysor nucleus of the cerebral cortex. Biul. eksp. biol. i med. 56 no.11:116-119 0 [i.e. N] '63. (MIRA 17:11)

l. Iz fiziologicheskogo otdela imeni Pavlova (zav. - deystvitel'nyy chlen AMN SSSR P.S. Kupalov) Instituta eksperimental'noy meditsiny (dir. - daystvitel'nyy chlen AMN SSSR D.A. Biryukov) AMN SSSR, Leningrad. Predstavlena deystvitel'nym chlenom AMN SSSR P.S. Kupalovym.

KUPALOV, Petr Stepanovich [deceased]; VOYEVODINA, Ol'ga Nikolayevna; VOLKOVA, Valentina Dmitriyevna; MALYUKOVA, Irina Vasil'yevna; SELIVANOVA. Al'bina Timofeyevna; SYREISKIY, Valeri: Ivanovich; KHANANASHVILI, Mikhail Mikhaylovich; SHICHKO, Gennadiy Andreyevich; BERKENBLIT, Z.M., red.

[Situational conditioned reflexes in normal dogs and in pathology] Situatsionrye uslovnye refleksy u sobak v norme i patologii. Leningrad, Meditsina, 1964. 274 p.

(MIMA 17:8)

KHANANASEVILI, M.M., HALYOKOVA, I.V.

1972年起的新聞歌歌歌歌歌歌歌歌歌歌歌歌。 战争的强力

the maternity and labor in higher mammals. Where vys. nerv. deint. 14 no.3(498-502 My-Je 164. (MISA 17:11)

1. Pavlov Physiology Department, Institute of Experimental Medicales, U.S. R. Academy of Medical Sciences, Leningrad.

KHANANASHVILT, M.M. —APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721720019-2"

Orienting reflex and the first conditioned motor response. Zhur. vys. nerv. deiat. 15 no.2:303-310 Mr-Ap 165.

1. Fiziologicheskiy otdel imeni I.P. Pavlova Instituta eksperimental'noy meditsiny AMN SSSR, Leningrad.

KHANANASHVILI, M.M.

Structural principles in the development of conditioned reflexes to visual and sound stimuli. Vest. AMN SSSR 19 no.6:27-35 '64.

(MIRA 18:4)

1. Institut eksperimental noy meditsiny AMN SSSR, Leningrad.

KHANANASHVILI, M.M.

Differentiation of acoustic conditioned stimuli by the criterion of the time of intensity rise and the significance of the temporal region of the cerebral cortex in this function. Thur. vys. nerv. deiat. 15 no.5:788-795 S-0 165. (MIRA 18:11)

1. Fiziologicheskiy otdel im. I.F. Pavlova Instituta eksperimental'noy meditsiny AMN SSSR.

KHANANASHVILI, M.M.

Electric activity of neuron-isolated neocortex in a chronic experiment. Fiziol. zhur. 51 no.1:19-26 Ja '65. (MIRA 18:7)

1. Fiziologicheskiy otdel imeni Pavlova Instituta eksperimental'noy meditsiny AMN SSSR, Leningrad.

HEALANAYSV, L. I., Crnd Lid Set — (disc) "Plasticity of arteries of the pancross and functions its incretory apparatus in the collaboral bloom circulation (anatomo-functional research)," Chernovtsy, 1960, 19 pp (Chernovtsy State Redical Institute) (KL, 36-60, 119)

KHANANAYEV, L.I. (g. Stanislav, ul. Gastello, 24, kv.1)

Plasticity of the collaterals and functional evaluation of the increatory apparatus of the pancreas in experimental conditions.

Arkh.anat.gist.i embr. 37 no.11:96-102 N '59. (MIRA 13:4)

1. Kafedra normal'noy anatomii (zaveduyushchiy - prof. Ye.P. Meliman) Stanislavskogo meditsinskogo instituta.

(PANCREAS blood supply)

KHANANAYEV, L.I.

Dynamics of functional changes in the insular apparatus of the pancreas after experimental ligation of its vessels. Probl. endok. 1 gorm. 6 no. 4:17-23 J1-Ag '60. (MIRA 14:1) (PANCREAS)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721720019-2"

KARPLYUK, Z.V.; KHANANAYEV. L.I. [Khananaiev, L.I.]

Trace element (zinc, copper) and sugar content of blood in dogs following ligation of the three main arteries of the pancreas.
Ukr.biokhim.zhur. 32 no.2:283-290 %60. (MIRA 13:11)

1. Department of Biochemistry of the Stanislav Medical Institute.

(PANCREAS--BLOOD SUPPLY)

(BLOOD SUGAR)

(TRACES ELEMENTS)

KHANANAYEV, L.i. (Ivanc-Frankovsk, ul. Gastollo, 24, hv.1) Effect of the extirpation of individual components of the solar plexus on the development of collateral circulation of the pancreas. Arkh.anat., gist. 1 embr. 47 no.10:49-55 0 164.

> 1. Kafedra normalinoy anatonii (pav. . prof. Ye.F. Meliman) Ivano-Frankovskogo meditainskogo instituta.

(MIRA 18:6)

MELIMAN, Ye.P.; KARPLYUK, Z.V.; KLIPICH, V.I., KOTORBASH, T.V., AHAMANAYEV, L.I.

Projectiveness of revascularization of the testia by the directed change of their blood supply; experimental study. Urologite. 29 no.3:16-21 My-Je '64. (NJRA 18.10)

l. Kafedra anatomii (zav.- prof. Ye.P. Mal'man), poapital'maya khirurgicheskaya klinika (zav.- prof. S.A. Verkhratakiy), kafedia biokhimii (zav.- doktor med. nauk G.A. Fabenko) i kafedra topograficheskoy anatomii s operativnoy khirurgiyey (zav.- prof. L.A. Nikol'skaya) Ivano-Frankovskogo meditsinskogo instituta.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721720019-2"

L 45144-66 EWT(d)/EWT(m)/EWP(v)/EWF(k)/EWP(h)/EWP(t)/ETI/EWP(1) IJP(c) ACC NR: AR6027560 JD/JG SOURCE CODE: UR/0272/66/000/005/0066/0066 36	
AUTHOR: Khananayev, V. G.	
TITLE: A screw-cutting machine	
SOURCE: Ref. zh. Metrologiya i izmeritel'naya tekhnika, Abs. 5.32.474	
REF SOURCE: Chasy, chas, mekhanizmy, no. 6, 1965, 15	
TOPIC TAGS: screw machine, lathe/NT-139 screw machine () ABSTRACT: The paper concerns a NT-139 screw machine manufactured and intro-	
ABSTRACT: The paper concerns a N1-139 screw machine threads into eight and duced into production at the Minsk Watch Plant for cutting threads into eight and duced into production at the Minsk Watch Plant for cutting threads into eight and duced into production at the Minsk Watch Plant for cutting threads into eight and duced into production at the Minsk Watch Plant for cutting threads into eight and duced into production at the Minsk Watch Plant for cutting threads into eight and duced into production at the Minsk Watch Plant for cutting threads into eight and duced into production at the Minsk Watch Plant for cutting threads into eight and duced into production at the Minsk Watch Plant for cutting threads into eight and duced into production at the Minsk Watch Plant for cutting threads into eight and duced into production at the Minsk Watch Plant for cutting threads into eight and duced into production at the Minsk Watch Plant for cutting threads into eight and duced into production at the Minsk Watch Plant for cutting threads into eight and duced into production at the Minsk Watch Plant for cutting threads into eight and duced into production at the Minsk Watch Plant for cutting threads into eight and duced into production at the Minsk Watch Plant for cutting threads into eight and duced into eight and eight and eight and eight a	
SUB CODE: 13, 14/ SUBM DATE: none/	
Cord 1/1 aurin UDC: 681.11.05	
	701

SBRIZHER, G.I.; KHANANAYEV, V.G.

Automatic machining of the plates of "Zaria" watches.

Priborostroenie no.11:23-24 N '62. (MIRA 15:12)

(Clockmaking and watchmaking—Machinery)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721720019-2"

KHANANINA, N. B.

Occupational Diseases

Dissertation "Clinical and Madical Treatment of Lymphogranulomatosis." Cand Med Sci, Second Moscow State Medical Inst imeni I.V. Stalin, 22 Mar 54. (Meditsinskiy Rabotnik, Moscow, 13 Mar 54).

30: 3UM 213, 20 Sep 54.

PALAKHIN, T., inch. tekhnolog (g. Svendrevsk); kl. SSEL1, L., inch. (g. Leningrad, nab. Kutuzova, d.12, kv.10); Ede SEARCV, L. (g. Leningrad); ELSKURNIKOV, A.; KHANANOV, A., inch.

Advertising board. Izobr.i ra . no.6:56-57 Je '60. (MTM 14:2)

1. Zamastitel' predsedatelya Koskavakogo obshakestva kinolyabitoley (for Beskurnikov). 2. 207 ucharak, avtobasa No.10, g. Sochi (for Keananov).

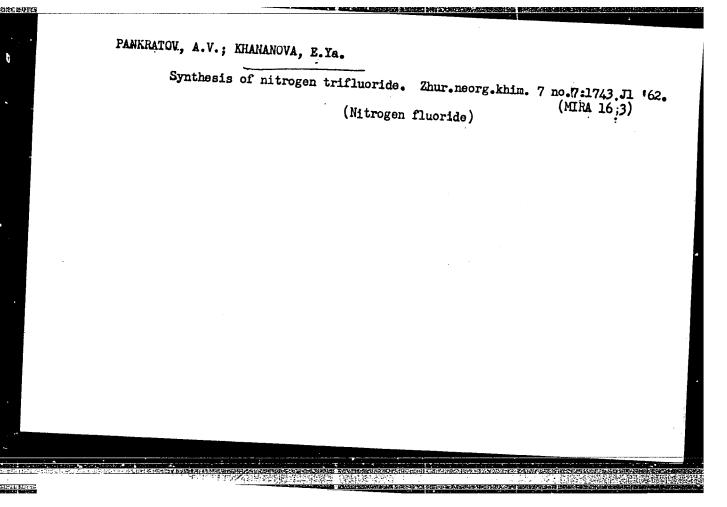
(Technological (anovations)

BABAYEVA, A.V.; KHANANOVA, E. Ya.

医斯维拉氏

Complex compounds of Pd (IV). Dokl. AN SSSR 159 no.3:586-587 (MIRA 18:1)

1. Institut obshchey i neorganicheskoy khimii imeni N.S. Kurnakova AN SSSR. Predstavleno akademikom I.I. Chernyayevym.



BABAYEVA, A.V.; KHANANOVA, E.Ya.

Compounds of PdIV tetramine type. Zhur.neorg.khim. 10 no.11:2579-2581 N '65. (MIPA 18:12)

1. Institut obshchey i neorganicheskoy khimii imeni N.S. Kurnakova AN SSSR. Submitted June 17, 1965.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721720019-2"

BABAYEVA, A.V. KHANAHOVA, B.Ya.

Ethylenediamine complexes of tetravalent palladium of the tetramine type. Zhur.neorg.khim. 10 no.12:2653-2656 D 165. (MIRA 19:1)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721720019-2"

AVTOKRATOVA, T.D.; ANDRIANOVA, O.N.; BABAYEVA, A.V.; BELOVA, V.I.;

GOLOVNYA, V.A.; DERBISHER, G.V.; MAYOROVA, A.G.; MURAVEYSKAYA,
G.S.; NAZAROVA, L.A.; NOVOZHENYUK, Z.M.; ORLOVA, V.S.; USHAKOVA,
N.I.; FEDOROV, I.A.; FILIMONOVA, V.N.; SHENDERETSKAYA, Ye.V.;

SHUBOCHKINA, Ye.F.; KHANANOVA, E.Ya.; CHERNYAYEV, I.I., akademik,
otv. red.

[Synthesis of complex compounds of platinum group metals; a handbook] Sintez kompleksnykh soedinenii metallov platinovoi gruppy; spravochnik. Moskva, Izd-vo "Nauka," 1964. 33E p.

(MIRA 17:5)

1. Akademiya nauk SSSR. Institut obshchey i neorganicheskoy khimii. 2. Institut obshchey i neorganicheskoy khimii AN SSSR (for all except Chernyayev).

HABAYSVI, ... 7.; LHAMANOVA, E.Ya.

AMPRES DE

Othy formulamine complexes of tetravalent palladium of the tetramine type. Pokl. AN SSSR 164 no.4:807-808 0 165.

(MIRA 18:10)

1. Institut obshchey i neorganicheckov khimit im. N.S.Kurnakova AN SSER. Submitted May 28, 1965.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721720019-2"

KHHNANYAN, M.M.

Subject : USSR/Engineering

Card : 1/2

Authors : Rubachev, G. N., Lodzhevskiy, L. G. and Khananyan, M. M.

Title : Study, coordination, and dissemination of advanced methods of work on underground repair of oil wells

Periodical: Neft. Khoz., v. 32, #4, 1-4, Ap 1954

Abstract : The author describes the study and development of

rational methods for underground repair work in oil wells as performed by the Central Scientific Research Institute for Mechanization and Organization of Labor in the Petroleum Industry (TSIMTNeft) and its branches. The experience and initiative of advanced brigades, shifts and individual innovators is considered in the promotion of the new methods for repair of oil wells. Essential material, tools and machines are assembled in regional oil fields for special crews trained in photochronometric methods of operation in accordance with a pre-planned schedule. The perfected method of repair work with Molchanov's automatic mechanism is specially

AID P - 275

RUBACHEV, Georgiy Nikolayevich; FATKULLIN, Mukhtar Khurmatovich; KHAHAHYAN, Helik Maiorovich; PLYUSNINA, Ol'ga Pavlovna; KOVALEVA, A.A., redaktor; POLOSINA, A.S., tekhnicheskiy redaktor.

[Advanced practice in using submerged electric pumps] Peredovoi opyt primeneniia pogruzhnykh elektronesosov. Moskva, Gos.naucho-tekhn. izd-vo neftianoi i gorno-toplivnoi lit-ry, 1956. 52 p. (MLRA 9:4) (Petroleum--Pumping)

PANAKHOV, Mureddin Akper ogly; KHANANYAN, Melik Makarovich; KOVALEVA, A.A., redaktor; ERDENKO, V.S., tekhnicheskiy redaktor

[Experience in drilling and operating multiple wells] Opyt bureniia i ekspluatatsii mnogoriadnykh skvazhin. Moskva, Gos. nauchno-tekhn. izd-vo neftianci i gorno-toplivnoi lii-ry, 1956.

48 p. (Oil well drilling)

KERNARSTON, M.V.

AUTHOR:

Khanapetov, M.V., Engineer

135-12-14/17

TITLE:

Welding Engineering in the All-Union Industrial Exhibition 1957 (Svarochnaya tekhnika na Vsesoyuznoy promyshlennoy vystavke 1957 g.)

PERIODICAL: Swarochnoye Proizvodstvo, 1957, # 12, p 38-44 (USSR)

ABSTRACT:

The article is an illustrated review of the new Soviet welding equipment shown during the industrial exhibition 1957. The following devices and materials were shown in illustrations and/ or described in some detail in the review. The All-Union Scientific Research Institute for Welding Equipment (Vsesoyuznyy nauchnoissledovatel'skiy institut svarochnogo oborudovaniya, VNIIESO) demonstrated the cold welding machine "MCXA-50" (Figure 1) for reinforcing aluminum winding lead-outs with copper terminals, joining copper plates to aluminum bus-bars, and for cold spot welding of aluminum up to a thickness of 4+4 mm, with initial pneumatic pressure of 6 atm, welding pressures of 50 tons, and an operating speed of 300 weldings per hour.

The Electrical Engineering Institute of the Ukrainian Academy of Sciences (Institut elektrotekhniki AN USSR) demonstrated manual pliers for butt and overlap cold welding of aluminum

Card 1/5

CIA-RDP86-00513R000721720019-2" **APPROVED FOR RELEASE: 09/17/2001**

Welding Engineering in the All-Union Industrial Exhibition 1957

and copper wires, "KC-6" (Figure 2), of 1.5 kg weight, handy in assembling work.

The Scientific Research Institute of the Cable Industry (Nauchno-issledovatel'skiy institut kabel'noy promyshlennosti, NIIKP) showed the "HNNKH-HC-7" device(Figure 3), for cold butt welding of aluminum wires, copper wires, and aluminum wires with copper wires.

The friction welding method is demonstrated in the VNIIESO stand on a friction welding device and high-quality welded joints of brass with steel, brass with cast iron, aluminum with duralumin. etc. are shown.

The Central Scientific Research Laboratory of the USSR Academy of Sciences (Tsentral'naya nauchno-issledovatel'skaya laboratoriya AN SSSR) exhibits the electric spark device "YNP-3m" with a pistol fixture for surfacing tools and other wearing surfaces with wear-resistant alloys, with an accuracy of 0.1 mm thickness. The device may be also used for cutting thin sheet

The ultrasonic soldering device "YII-21" (Figure 4) solders aluminum and aluminum alloys without the use of fluxes, by

Card 2/5

135-12-14/17

Welding Engineering in the All-Union Industrial Exhibition 1957

共行的某次系統制制度 自建设于一个

and alcaline-earth metals (no closer specification given), and which permits welding titanium with standard welding equipment on d.c. of inverse polarity.

The device of the NKMZ (Kramatorsk) for electric slag welding with melting wire-holding tubes (Figure 7, foreground) differs from the usual electric slag welding technology by the use of a so-called technological plate of an outline identical with the outline of the section to be joined (Figure 8). The plate with the attached tubes carrying the welding wire will be inserted into the gap at the joint and melts together with the welding wire and tubes in the rising welding puddle.

The Zhdanovskiy Metallurgical Institute demonstrates a torch (Figure 9) for automatic arc welding thin stainless steel sheets with melting electrodes in CO₂, which is simple in design and needs no cooling.

The machine "MC-0,75" (Figure 10) for contact butt welding wires of ferrous and non-ferrous metals and alloys (producer not identified), receives power from a 220 volt network and makes 9 welds per minute.

Card 4/5

Welding transformer (producer not identified) "BCC-120-1"

NO PRINCIPALITATION DE L'ANTINE DE L'ANTIN

135-12-14/17

Welding Engineering in the All-Union Industrial Exhibition 1957

(Figure 11), for manual d.c. arc welding thin sheet metal, differs radically from the designs built in USSR thus far. It has no rotating parts and consists of a reducing three-phase transformer, a welding current reactor-adjuster, a rectifier block and a starting-adjusting arrangement, all mounted in one housing. The rectifier block consists of a three-phase bridge circuit of 100 x 400 mm selenium discs of the "ABC" type on an aluminum base. (The characteristic of this transformer is given). The gamma-apparatus "ГУП-CO-50" (Figure 12), unidentified manufacturer, is for laboratory as well as industrial use and works on 220 volt a.c.. Its gamma ray source is Co⁶⁰. Its conical gamma ray beam reaches through 200 to 500 mm steel.

AVAILABLE:

Library of Congress

Card 5/5

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721720019-2"

被抗凝性。

KHANAPETOV, M.V., insh. Creative contribution of automobile designers. Izobr. v SSSR

بربريفنس لإستقامات

3 no.1:28-30 Ja 158. (MIRA 11:1)

(Automobiles-Design and construction)

KHANAPETOV, M.V.; BORISOV, M.A.

The AB-4-T/230 gasoline-powered unified electric plant. Biul.tekh.-ekon.inform. no.6:36-38 '58. (MIRA 11:8)

"一点是一个行行的智慧的是否的现在分词的现在分词的现在分词

The DES-30 and DES-50 mobile electric power stations. Biul. tekh.-ekon.inform. no.11:42-43 ' 58. (MIRA 11:12) (Blectric power plants)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721720019-2"

KHANAPETOV, M.V.

The 4724 electric-erosion copying broaching machine. Biul. tekh.-ekon.inform. no.12:30-32 458. (MIRA 11:12) (Electric metal cutting)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721720019-2"

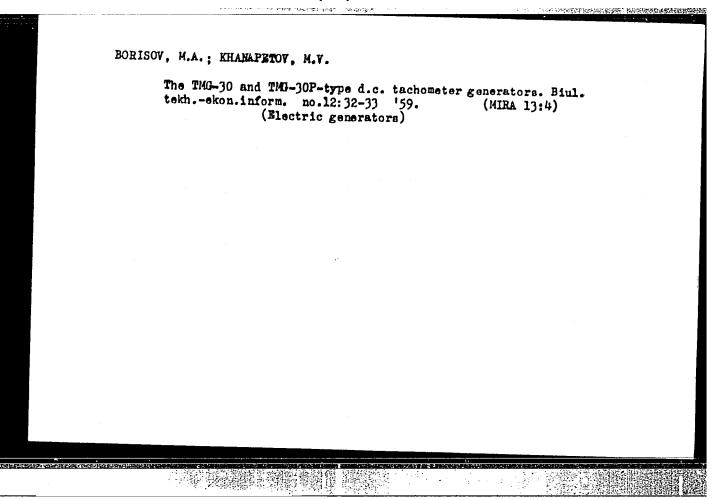
THE CONTROL OF THE CO

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721720019-2

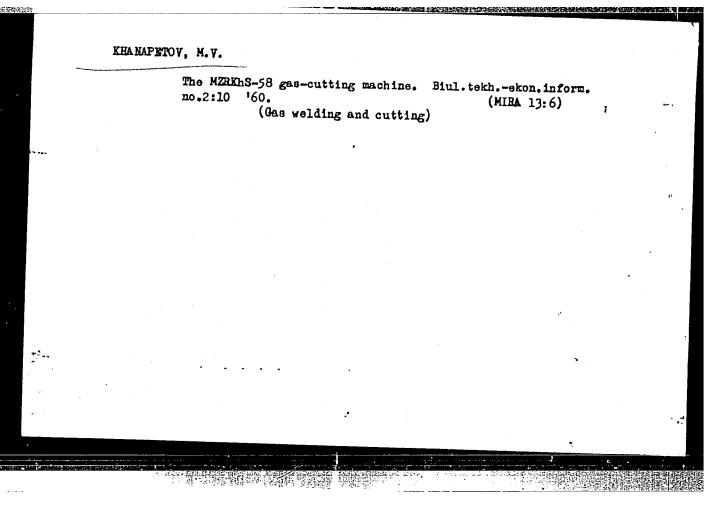
KHANAPETOV, M.V.; BORISOV, M.A.

Power single-phase three-winding autotransformers. Biul.tekh.-ekon.inform. no.1:36-37 '59. (MIRA 12:2)

(Electric transformers)



"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721720019-2



"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721720019-2

THE REPORT OF THE PROPERTY OF

5/125/60/000/03/015/018

D042/D001

25(1)

Khanapetov, M.V.

Makadakan Jawa Casa

TITLE:

AUTHOR:

Welding Technique, at the 1959 Exhibition of the Achievements

of the USSR National Economy

PERIODICAL:

Avtomaticheskaya svarka, 1960, Nr 3, 84-92

ABSTRACT:

The exhibits are listed with brief description of the essential features. The "SDVU-2" welder, for diffusion welding! of ceramics, cermets, parts of heat-resistant steel and nonferrous metals in a vacuum by the N.F. Kazakov method was designed by the Moskovskiy tekhnologicheskiy institut (Moscow

Technological Institute) in cooperation with Kombinat tverdykh splavov (Hard Alloys Combine). It consists of a tube generator, a vacuum chamber, a base plate and a hydraulic cylinder and weighs 500 kg without the generator. The Nove-Kramatorskiy zavod im. Stalina (New-Kramatorsk Plant imeni Stalin) exhibited a 14-ton electroslag-welded specimen, and the Institut elektro-

Card 1/11

svarki im. Ye.O. Patona (Institute of Electric Welding imeni

Welding Techniques at the 1959 Exhibition of the Achievements of the USSR National Economy

Ye.O. Paton) the "A-372r" and "A-501" electroslag welders, The "A-372r" is for single-pass welding of various (circular, butt, T, etc.) metal joints of 50 to 600 mm thickness; the "A-501" is a magneto-walking welder for vertical angle joints, T and butt welds up to 100 mm thickness. For cold butt welding of single-wire cables and thick wires the Institut elektrotekhniki AN USSR (Electrical Engineering Institute AS UkrSSR) has developed the "SNS-2" table welder; multicore cables can be joined by connecting single cores in sequence; aluminum wire of 4-25 mm² cross section area, copper wires of 4-10 mm as well as copper with aluminum can be joined. The "KS-6" hand tongs are for welding aluminum wires with copper wires. The installation for thermite welding of multiwire high-voltage transmission lines, developed by Tsentral naya vysokovol tnaya laboratoriya Mosenergo (Central High-Voltage Laboratory of Mosenergo) collectively with Zavod Mosoblsovnarkhoza (Mosoblsovnarkhoz plant) joins the wires by means of simple

Card 2/11

CARCES EST

Welding Techniques at the 1959 Exhibition of the Achievements of the USSR National Economy

tongs with thermite cartridges. There are several ultrasonic welding, soldering and tinning devices: The "UZSM-1" spot welder for thin sheet metal in which the welding tool tip presses the sheets together with an effort adjustable between 20 and 100 kg, developed by Nauchno-issledovatel'skiy tekhnologicheskiy institu (Technological Scientific Research Institute); the "UZTM-2" for seam welding, with the same generator and transformer having contact rollers driven by a separate motor and a welding speed of up to 850 mm/min; the "UT-4" spot welder of MVTU-MET, for welding copper and its alloys, stainless steel, aluminum and aluminum alloys, high-melting metals etc. having a thickness of up to 1.5 mm, is used with an "UZG-10" ultrasound generator and makes 20 spot welds in a minute; the "UP-31" device for tinning and soldering aluminum and aluminum alloys with soft solders without flux; the "UZP-3" for tinning and soldering

Card 3/11

S/125/60/000/03/015/018 D042/D001

Welding Techniques at the 1959 Exhibition of the Achievements of the USSR National Economy

aluminum parts with a rate of 1-2 cm²/min; the "UP-42" for the same purpose as the two last mentioned devices. Of great interest for welders is a plasma-jet nozzle of the Institut metallurgii im. A.A. Baykova (Metallurgical Institute imeni A.A. Baykov). It has an electrically neutral channel comprised of two electrodes one of which is in the shape of a nozzle and produces an electric discharge ionizing the gas flowing through the nozzle. The bright plasma jet out of the nozzle is 15-20 mm long and has a temperature of 15,000° C. Argon, helium, hydrogen, CO2 or other gas can be used. The plasma jet can be used for melting, welding, soldering, cutting metal and other materials, coating different materials, hardening the surface and cleaning. The "AGN-8-26M" welding head (of NIIkhimmash) with a hoseless gas feed is designed for welding the butt joints of fixed stainless steel tubes of 8-25 mm diameter and 1.5-2.0 mm

Card 4/11

Welding Techniques at the 1959 Exhibition of the Achievements of the USSR National Economy

wall thickness by use of a non-melting electrode in shielding gas. Unlike the existing ('AGN-8-26", "MS-19" and others) welding heads, argon is fed into the "ACN-8-26M" by a device with immobile and mobile ducts. The semiautomatic "A-547" of the Institute of Electric Welding imeni Ye.O. Paton is for welding thin metal by short seams with a melting electrode in shielding carbon dioxide gas for welding in any position. The "PDPG-300" of VNIIESO is a semi-automatic welder for directcurrent welding by a melting steel electrode in shielding gases. The electrode diameter is 0.8-2 mm, the wire feed is adjustable between 1.5 and 16 m/min, the current 300 amp, 15-40 volt and the gas consumption is 600-1500 liter/hr. VNIIAVTOGEN exhibited new gas-electric cutters which cut, by "penetrating arc", non-ferrous metal and stainless steel up to 40 mm thickness. The "UDR-1-58" for straight cutting on a self-propelled carriage and the "UDR-2-58" for manual

Card 5/11

THE RESERVE OF THE PROPERTY OF

S/125/60/000/03/015/018 D042/D001

Welding Techniques at the 1959 Exhibition of the Achievements of the USSR National Economy

cutting. The "UDS-58" of the same institute is an arc welder suitable for mechanical as well as manual welding of nonferrous metals by a melting electrode in shielding gas. The knapsack type semi-automatic "PShV-1" for arc welding in shielding gas by a tungsten electrode welds straight and curved seams in any position the nozzle rests on the filler wire in the process which ensures constant arc length. The "PShP-9" is a semi-automatic hose welder for irregular shaped short welds in shielding gas in structural heat-resistant and stainless steel and light alloys. The "ADSP-2", an arc welder for the same metals, is a "welding tractor" working automatically. The "ADSV-2M" is another "tractor" working with a nonmelting electrode and filler wire. The semi-automatic "PGSh-2M", of TsNIITMASh, is for welding by a melting electrode of 1.6-2 mm diameter in CO, with up to 500 amp current and with the wire feed speed controlled by changing the r.p.m. of the motor between 10.8 and 648 m/hr. The

Card 6/11

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721720019-2"

中的 生物性性质 超色

Welding Techniques at the 1959 Exhibition of the Achievements of the USSR National Economy

"UDAR-300" (photo, Figure 1) of the "Elektrik" plant is for manual arc welding of aluminum and aluminum alloys by a nonmelting electrode in argon using a.c. up to 300 amp. The "ADPG-500" welding tractor of VNIIESO is for welding by d.c. in shielding gas by melting steel wire. The following resistance welding machines were demonstrated; the "SHKM-3", a universal capacitor-type seam welder designed by the Institute of Electric Welding AS UkrSSR and the Kiyevskiy politekhnicheskiy institut (Kiyev Polytechnical Institute) having an electronic control of the capacitors and used for ferrous and nonferrous metal of 0.05 to 0.7 mm thickness; the capacitor-type "MShK-3-2" of VNIIESO for stainless steel and nonferrous metal of 0.03 to 0.2 mm thickness; the "MRK-3" roller welder for seam welding on bellow thermostats and membrane boxes of steel and bronze with welding pulses from a battery of capacitors. The Institute of Electric Welding

Card 7/11

Welding Techniques at the 1959 Exhibition of the Achievements of the USSR National Economy

imeni Ye.O. Paton demonstrated a surfacing welder (photo, Figure 2) with a thin metal band for the electrode to ensure a high productivity and even coating layer which moved 4-12 m/hr and coated a layer of 2-8 mm in a single run. The Ural'skiy politekhnicheskiy institut im. S.M. Kirova (The Ural Polytechnical Institute imeni S.M. Kirov) displayed the Automatic vibro-arc "VG-2" welder (Figure 3) for cylindrical and flat work which is suitable for high-alloy steel including high-speed cutting grades, welds in shielding medium of a 4-per cent solution of calcinated soda, or a 10-per cent sodium fluoride or on CO2. The automatic "D-1" of the Ukhtinskiy mekhanicheskiý zavod (Ukhta Mechanical Plant) is designed for vibrational surfacing of steel and cast iron work with steel in a jet of cooling liquid - the welding head is used on a lathe toolpost. The automatic "KUMA $\sim 5M$ " of the Chelyabinskiy zavod im. S. Ordzhonikidze (Chelyabinsk Plant imeni S. Ordzhonikidze) used for pulse-arc surfacing

Card 8/11

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721720019-2"

三世紀 医神经性皮肤 医神经性 医神经性 医神经性

Welding Techniques at the 1959 Exhibition of the Achievements of the USSR National Economy

of worn machine parts by applying coatings of 0.5 to 3 mm is also used on lathes. The "EM-9" of VNIIAVTOGEN for restoring worn shafts, bushings, etc. can also be used for patching steel and nonferrous castings and for raising the heatresistance of steel. The vibrational welding head of Engineer A.M. Barabanov is for surfacing worn parts with layers of 0.5-2.5 mm. The few devices for welding under flux include the following: the "A-564" of the Institute of Electric Welding imeni Paton, for attaching 4-12 mm diameter stude by welding with special flux rings in a vertical and overhead position it attaches a stud in 1.2 - 3 sec. and weighs 2.2 kg; and the "UT-1250-3" welding tractor of TaNIITMASh which automatically welds butt and angle welds. The gas cutter "MZRKhS-58" (Figure 4) of the Kherson Sovnarkhoz, weighing 25 kg, is designed for trimming the edges of round parts and can replace a turret lathe for trimming parts of 600 to

Card 9/11

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721720019-2"

TO THE PROPERTY OF THE PROPERT

Welding Techniques at the 1959 Exhibition of the Achievements of the USSR National Economy

3,000 mm diameter and 5-100 mm thickness and an electromagnet of 100 kg pulling force is placed in the machine base to hold it in a vertical position. N.M. Kudryavtsev's machine (Figure 5) is a gas cutter for pipes of 57-529 mm diameter and 1-12 m length - it can cut straight and with different bevel angles and can cut out apertures in pipe walls; it is driven by an a.c. 0.6 kw motor and has a "bevel variator", a worm gear reductor and a pair of spur gears. The "dry" acetylene generator "ASR-1-56" (Figure 6), of VNIIAVTOGEN, gives dry powdery waste line and has a work capacity of 20 m3/hr - 80 kg of carbide are charged at a time. The "VSS-300-2" welding rectifier, of VNIIESO, is for manual d.c. arc welding with current from an a.c. network and has aluminum transformer windings plus an automatic overheating switch. The single-pole "TSK-300" transformer (Figure 7) is for use in mant 1 arc welding, cutting and surfacing, and has a capacitor in arallel with the primary winding to raise the power factor (the mean

Card 10/11

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721720019-2"

S/125/60/000/03/015/018 D042/D001

Welding Techniques at the 1959 Exhibition of the Achievements of the USSR National Economy

value of power factor is 0.93). The mobile "STN-500-1" transformer of the Vil'nyusskiy zavod elektrosvarochnogo oborudovaniya
(Vilnus Electric Welding Equipment Plant) is for manual cutting and welding. The "IST-1M" instrument of the Ufimskiy zavod
(The Ufa Plant) measures the current flowing through parts being welded on resistance welding machines. The "IDTs-1" ultrasonic —
defectoscope of TsNIITMASh reveals defects in metal parts in
disc form with a central bore - the results are mechanically
recorded and visually observed on indicators. The magnetic
"MPD-1" mobile defectoscope (also TsNIITMASh) tests large metal
parts by magnetic powder and is fitted with a portable pump.

Card 11/11

1.2300

S/193/60/000/005/004/012 A004/A001

AUTHOR:

Khanapetov, M.V.

TITLE:

The Ultrasonic Y3CM-1 (UZSM-1) and Y3CM 2 (UZSM-2) Welding

Machines

PERIODICAL:

Byulleten' tekhniko-ekonomicheskoy informatsii, 1960, No. 5, pp.

TEXT: The Nauchno-issledovatel'skiy tekhnologicheskiy institut (Scientific Research Institute of Technology) NITI in 1959 developed the UZSM-1 and UZSM-2 machines for the ultrasonic spot and seam welding of sheet metals. The operation principle of the machines is based on the conversion of high-frequency electric oscillations into horizontal mechanical oscillations of high frequency. The main part of the machines is the magnetostriction conveter of the MM(-15 (PMS-15) type, which in the UZSM-1 machine is fed from the serial Y31-10 (UZG-10) or Y31 --2,5 (UZG-2,5) generators. In the UZSM-1 machine, devised for spot welding, the oscillations of the converter are transmitted through a waveguide to the upper cap fastened to the tool tip. The tool is detachable to enable it being replaced when the cap is worn or if it is necessary to produce welding spots of another size. The magnetostriction converter and, during protracted operation, also the tool with

SEE RE

89820

S/193/60/000/005/004/012 A004/A001

The Ultraspnic Y3CM-1 (UZSM-1) and Y3CM-2 (UZSM-2) Welding Machine

cap and conductor are water-cooled. During operation the workpieces are clamped with the aid of an pneumatic device, the compressive force of which can be regulated by changing the air pressure. The duration of the welding process is set with the aid of a time relay. For the preliminary setting of the welding time the machine has two scales, one for rough setting with an accuracy up to 1 second, the second scale for a smoother control with an accuracy of up to 0.1 second. Copper, aluminum and its alloys, stainless steel, high-melting and other metals can be welded on the UZSM-1 welder. Also different metals can be welded together, e.g. aluminum to copper, copper to stainless steel etc. The ultrasonic UZSM-2 welding machine has been devised for the seam welding of sheet metals. It has the same magnetostriction converter as the UZSM-1 machine. The welding tool has an upper cap in the form of a roller, while a lower roller is fastened to the bracket. The welding speed is adjusted on a scale placed on the front side of the machine. In contrast to the spot-welding machine, the magnetostriction converter of the UZSM-2 machine rotates together with the welding tool. The cooling water is supplied from the mains to the converter through a connecting joint. The workpieces are clamped after a foot pedal has been pressed. To guide the components properly during the welding process, a small table with bedways is fastened on the level of the upper Card 2/3

S/193/60/000/005/004/012 A004/A001

The Ultrasonic 33(M -1 (UZSM-1) and Y3(M -2 (UZSM-2) Welding Machine

edge of the lower welding roller. The bedways can be adjusted according to the width of the sheets being welded. The machine is supplied from a UZG-10 or UZG-2,5 generator with a power consumption of 5 kw and a power output of 2.5 kw. The following technical data are given concerning both the UZSM-1 and UZSM-2 models (data of the latter in brackets): power of magnetostriction converter, kw - 2.5-motor, kw - -- (0.12); clamping stress, kg - minimum - 20 (20), maximum - 100 (140); maximum distance of spot or seam from the sheet edge (tool sweep), mm - (75), maximum - -- (850); thickness of sheet being welded - 1.5 (1.5); water sions (length x width x height), mm - 670 x 430 x 1,250 (950 x 490 x 1,320); weight, kg - 120 (200). There are 2 figures.

Card 3/3

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721720019-2"

20年內計劃(計算的計劃)

S/125/60/000/05/14/015

AUTHOR:

Khanapetov, M. V.

TITLE 3

All-Union Scientific-Technical Conference on the Use of

Semiconductor Power Rectifiers

经特殊的共产利率的代码的 "我是否可"

PERIODICAL: Avtomaticheskaya svarka, 1960, No. 5, pp. 94-95

Information is given on a conference held in November 1959 in Moscow, on the use of semiconductor rectifiers in transportation and at industrial works, including welding. I. Salynskiy, in his report "Semi-conductor (selenium) Rectifiers For Welding Machines" treated the problems of the selection of selenium cells, their calculation, design and the test of rectifier units; he outlined the advantages thereof, compared to the rotary converters (higher efficiency, economy of nonferrous metals, reduced dimensions and current losses). The Soviet industry produces now semiconductor rectifiers applicable for welding transformers - silicon, germanium and selenium diodes. The silicon and germanium rectifiers are highly efficient, but only few are-produced yet and they are expensive, but the production of selenium rectifiers has been improved considerably. Cells with 60-80 volt reverse voltage are under development; the load

Card 1/4

\$/125/60/000/05/14/015

All-Union Scientific-Technical Conference on the Use of Semiconductor Power Rectifiers

currents of cells under development and already produced is raised three and even five times. Thallium elements have considerable advantages except for their life, though it appears that it can be extended. In view of this thallium elements of 100x400 mm size were accepted for development. A selenium unit of such elements has one third of the elements of a normal rectifier, it is 2.6 times smaller, 2.9 times lighter, and 50% cheaper. They can be recommended for use in welding transformers for 120 and 300 amp. Converters with saturation chokes and mobile coil transformers have been tested, and the converters with coils ("VSS-120-3" and "VSS-300-2") proved considerably better from the technical and economical point of view. B. V. Strogov reported on "Experience in Making and Using Selenione Rectifiers" and described a selenium rectifier with saturation choke for welding purposes. M. M. Smirnov informed on production and application of semiconductors at the Avtozavod im. I. A. Likhacheva (Automobile Plant imeni I. A. Likhachev), where a new converter, "SP-300" is being developed for 200 kva. The secondary windings of the transformer and the choke are put together; current is adjustable between 300 and 30 amp, idle oun voltage is 72. Negative feedback gives an abrupt external Card 2/4

\$/125/60/000/05/14/015

All-Union Scientific-Technical Conference on the Use of Semiconductor Power Rectifiers

characteristic (the ration of short-circuit current to welding current is 1.2). For better protection from corrosive medium and better cooling of selenium plates, the rectifier unit was placed into a container with transformer oil. The plates are "TBS-100", 288 in all, with two plates connected in series and 24 parallel in every arm. The electromechanical shop of the plant has completed 12 such converters. Besides, the welding laboratory of the Automobile Plant produced a welder, "BG-50", with semiconductor rectifiers. It includes a welding transformer of "ST-2" type and a "REST-2" choke; the germanium diode was cooled by water and the permissible current could be raised to 200 amp. It was stated in comparison tests with the machine converter "PS-300" that even with so imperfect a system the machine with germanium rectifiers had still 67.5% efficiency compared to only 41% of the machine converter. After eight months of use the unit with germanium rectifiers had to be stopped because of clogged pipes in the water cooling system. An analogous machine is completed by now with a protection without water cooling. V. P. Kamenskaya treated methods for a determination of overload capacity of rectifiers and other

Card 3/4

3/118/60/000/007/003/004 A161/A029

18-7200 AUTHOR:

Khanapetov, M. V., Engineer

TITLE:

Introducing Modern Welding Engineering Into the National

PERIODICAL: Mekhanizatsiya i avtomatizatsiya proizvodstva, 1960, No. 7,

TEXT: New welding equipment listed in the article will be demonstrated in July and August 1960 at the exhibition of achievements of the national economy of the USSR. Welding manipulator "YCM-500" (USM-500) of 500 kg lifting capacity is applicable at many USSR plants; manipulators, or positioners, for heavier work will be "CH-10007" (SM-1000P) with a pneumatic drive lifting up to 1,000 kg, universal "CM-1000 (SM-1000) handdriven positioner; universal "YCM-1200" (USM-1200) manipulator; universal "CM-5000" (SM-5000) positioner for 5,000 kg. The new plasma jet cutting method will be demonstrated, permitting the cutting of all known materials including materials of highest heat resistance, stainless steel, ceramics. The plasma method is also applicable to welding and spraying. Installations

Card 1/4

S/118/60/000/007/003/004

Introducing Modern Welding Engineering Into the National Economy

will be shown for plating with heat-resistant metals, for welding by plasma arc, for automatic and manual cutting by plasma jet, and for straight-line cutting of sheets. Specialists will see a special electron-ray welding installation for active metals, and an analogous electric system; A "BYAC" (VUAS) welder for welding active metals in controlled atmosphere and an "YCKB" (USKV) for roller welding in vacuum. Machines for ultrasound welding will include an "Y3CM-1" (UZSM-1) for ultrasound spot welding; an "Y3CA-2" (UZSA-2) for ultrasound seam welding; a transportable "Y3CA-3" (UZSA-3) welder; an "/3T" (UZT) spot welder; an "/3W" (UZSh) with roller contacts; "/3(IM" (UZSPM) for welding polymers. The cold butt welding machines "MCXC-35" (MSKhS-35) and "MCXC-5" (MSKhS-5) can weld aluminum to copper, aluminum to aluminum, and copper to copper. The "MCT-34 (MST-34) friction butt welding machine with pneumo-hydraulic grips and pushbutton control is an automatic machine for large steel and alloy parts. Besides, there will be equipment for diffusion welding in vacuum; for making flexible hose by roller welding; for welding aluminum alloys of high thickness; for sheets less than 0.2 mm thick; for welding thin sheet structures by pulsating arc; for argon arc welding by fusing electrodes on immobile butt

Card 2/4

CIA-RDP86-00513R000721720019-2" **APPROVED FOR RELEASE: 09/17/2001**

82721

S/118/60/000/007/003/004

Introducing Modern Welding Engineering Into the National Economy

45.00%的原因群党禁护 關係之

joints of aluminum alloy gas line pipes; for welding with rotating arc in magnetic field. Standardized units for combinations into different special welding devices will include a standardized "AFB" (AGV) welding head for tungsten electrode, automatic "ΑΔ(B-2" (ADSV-2) and "ΑΔ(Π-2" (ADSP-2) "welding tractors" composed from standardized units and designed for welding with tungsten and with fusing electrode, and universal'AДСПВ-2"(ADSPV-2) automatic "tractor", also of standard units. Welding techniques will be demonstrated. The welding of plastics and spraying of plastics on surfaces will also be shown. In the section of resistance and arc welding there will be new automatic equipment. A 'MWWW-400" (MShShI-400) machine for seam welding of light alloys will be shown in operation. Different welding process watching devices will be exhibited, among them an "PTC-1" (RTS-1) current recorder, an "ACT-2" (AST-2) for measuring current in single-phase welding machines and making possible the watching of the major parameter in resistance welding process; a "PBC-1" (RVS-1) time recorder recording the time of the current passage in resistance welding. One gas cutting semi-automatic is expected to arouse much interest, it is designed for cutting complex lines, eliminates the use of templates, gives a clean cut, ensures tight pipe joints, and reduces 8 times the cutting time comparing Card 3/4

1.5400

S/110/60/000/010/012/014 **B194/B45**5

AUTHOR:

Khanapetov, M.V., Engineer

TITLE:

An Exhibition of Welding Techniques

PERIODICAL: Vestnik elektropromyshlennosti, 1960, No.10, pp.62-65

The Engineering Pavilion of the Exhibition of Achievements of the National Economy contains an exhibition of modern welding technique; this note mentions the main exhibits. Resistance butt-welding machine type MPC-50 (MSR-50) of 50 kW is used for sections up to 800 mm2, The travel of the moving tip is 30 mm and the maximum distance between tips 100 mm. machine producing pipes of from 0.5" to 1.25" A pipe-welding Machine type MTHT -75 (MTPP-75) will spot-weld parts of low-carbon steel 0.5 to 1.5 mm thick. The machine cycle is governed by an electronic time controller type PB3-7 (RVE-7). The machine also has an asynchronous ignitron contactor type KNA-50 (KIA-50). output of the machine is 60 to 120 spots per minute. type MCMY-150 (MSMU-150) carries out butt-welding on low-carbon steel parts of 1000 mm² section. The machine can make 80 welds per hour, the power is 150 kVA and the compressive pressure is up

S/110/60/000/010/012/014 E194/E455 V

An Exhibition of Welding Techniques

Machine MCM-150 (MSM-150) uses a continuous melting to 6500 kg. method to produce butt-welded tubes for refrigerator coils. Control mechanisms are particularly important. Welding-current recorder type PTC-1 (RTS-1) records and measures the welding current and power in the circuit; the sensitive element is a germanium Hall-effect pick-up. Time controller type РЦС -1 (RTsS-1) provides universal sequence and time control for the automatic cycle of a resistance welder. Instrument type ACT -2 (AST-2) can measure the current in single-phase welding machines, thus permitting control of the main parameter in resistance welding. An automatic welding-current controller maintains constant welding current with varying welding circuit parameters. The All-Union Scientific Research Institute of Electrical Welding Equipment demonstates equipment type YC97-1 (USEL-1) intended for welding with an electron beam in vacuum on metals that oxidize rapidly and are hard to melt. A similar equipment type 3119-1 (ELU-1) is used with chemically-active metals which react with the atmosphere, The new equipment type BYAC (VUAS) for automatic Card 2/3

15400 also 2708

S/135/60/000/012/004/010 A006/A001

AUTHOR -

Khanapetov, M.V., Engineer

TITLE-

Automatic and Semiautomatic Welding Under Flux

PERIODICAL:

Svarochnoye proizvodstve, 1960, No. 12, pp. 14-18

TEXT: The author reports on equipment for welding under flux shown in an exhibition, including the following machines. The TC -32 (TS-32) (Figure 1) welding tractor, intended for single-pass, one-sided automatic welding under flux on d-c of 3-12 mm thick steel sheet butt joints. One-sided welding with full penebead of the seam. The technical characteristics are: diameter of the electrode wire; 2-5 mm; electrode wire feed rate; 2.3-4.7 m/min. Welding rate; 24-50 m/hour; rated current - 900 amp; control limit of the welding current - 400 to 1,200 amp; feed voltage 220 or 380 v; clamping force of the lower suspension the automatic welding of aluminum with a semi-open arc on a flux layer. It is equipped with a multi-purpose attachment for arranging the seam between the wheels and at the side of the tractor and can be used for welding butt and angular joints

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721720019-2"

Automatic and Semiautomatic Welding Under Flux

HOLDING TO STREET

克尔斯特里尔马斯斯特亚亚语名 易数性

S/135/60/000/012/004/010 A006/A001

on up to 40 mm thick metal and annular seams on containers of 1,000 mm in dia. meter and more. The technical characteristics are: electrode wire diameter - 1 to 4 mm; welding current - 100 to 800 amp; welling rate 8-60 m/hcur; dimensions of the machine: 750x350x480 mm. The multi-purpose MCA-500 (USA-500) welding machine (Figure 2) is intended for arc welding on dec of straight and annular everlap and butt joints with or without final sharing, with consumable electrodes under flux; in argon or other shielding gases; with unconsumable electrodes with or without filler metal in a gas shield. Technical characteristics: maximum welding current - 500 amp; electrode wire diameter - 0,4-2 mm; tungsten electrode diameter - 2 to 6 mm; electrode wire feed rate: 80 to 1,425 m/hour; welding speed 10 to 60 m/hour. The ALMT-300 (ADMT-300) welding machine (Figure 3) can be used for overlap welding 0.5-3 mm thick metal and thin sheets with plates (overlap of about 1 + 40 mm) under flux or in shielding gas, two electrodes may be used. Technical characteristics: welding wire diameter, 0.2.1.2 mm, electrode wire feed: 1-36 m/min; welding speed: 4-130 m/hour; welding current up to 350 amp; dimensions: 550x170x400 mm; weight - 25 kg. The AIK -500-6 (ADK-500-6) machine designed by VNIIESO, is intended for arc welding under flux or annular seams, arranged on a horizontal, vertical or inclined surface. A round table, alfeed mechanism with a welding head and a control desk are mounted on a stand, the table

Card 2/10

8546?

Automatic and Semiautomatic Welding Under Flux

S/135/60/000/012/004/010 A006/AG01

rotates at 0.18-2.61 rev/min; the electrode wire diameter is 1.6-2.5 mm; the electrode feed rate is 1,5-16 m/min; the diameter of welded annular seams in 150-600 mm; maximum weight of the welded work piece is 400 kg; d-c of 180-600 amp is used, feed voltage is 220 or 380 v; dimensions of the unit; 2,200x1,300x1,747 mm, weight 650 kg. The ACTK-1 (ASGK-1) automatic welding head, developed by NIITRAKTORSEL Khozmash is intended for welding annular seams and is an exchangeable unit of the multi-purpose YCA-2 (USA-2) welding tractor. The head may be used for welding longitudinal seams on a work piece miving toward the fixed head, Welding may be performed under flux and in a shielding gas. Technical characteristics: 150-600 amp surrent; 25-40 v ar: voltage, 50-650 m/hour electride feed rate; 1.2-3 m welding wire diameter; dimensions: 1,000x250x700 mm; weight 50 kg. The automotive $T\Phi\pi$..1000 (TFD-1000) automatic machine is intended for welding with a three-phase arc of low-alloy and carbon steels by single-pass and multipass large seams, using 2 electrodes under flux. The arcs are burning between the electrodes and between each electrode and the work riese. Due to the absence of throttles and other special resistances, the voltage in the circuit remains practically constant. The diameter of the electrode wire is 3-4 mm, current on the electrodes = 400-1,200 amp; current in the work piece circuit = 200-1,500 amp; electrode feed rate - 200-600 m/hour; welding speed - 17-50 m/hour, Efficiency Card 3/10